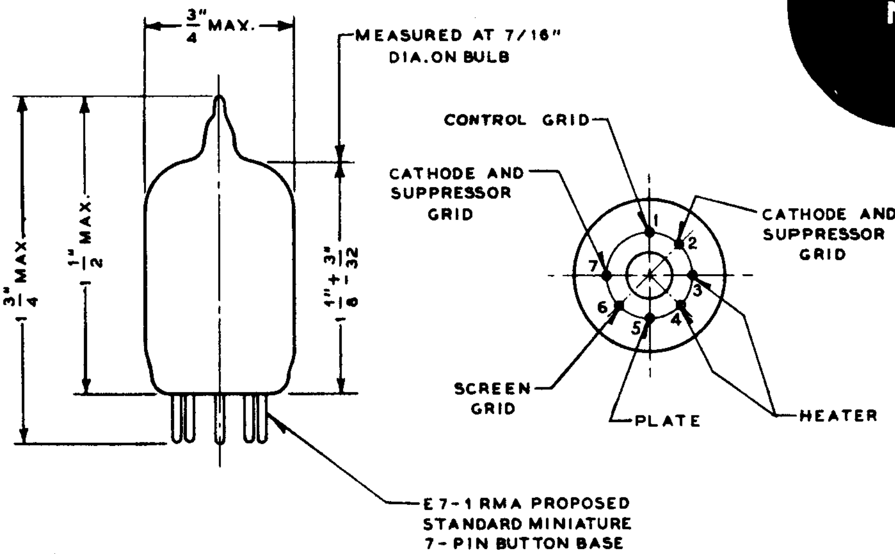
ADVANCE ELECTRON TUBE DATA SHEET

WESTERN ELECTRIC 5590* ELECTRON TUBE

5590
MINIATURE PENTODE



CLASSIFICATION

Miniature Pentode

MOUNTING

Tube may be mounted in any position.

MAXIMUM RATINGS (DESIGN - CENTER VALUES)

Plate Voltage	180 volts
Plate Dissipation	1.7 watts
Screen Voltage	140 volts
Screen Dissipation	0.5 watts
Cathode Current	18 milliamperes
Heater - Cathode Voltage	90 volts
Bulb Temperature	120°C

OPERATING CONDITIONS AND CHARACTERISTICS

Heater Voltage	6.3 volts
Heater Current	0.150 amperes
Plate Voltage	90 volts
Plate Current	3.9 milliamperes
Screen Voltage	90 volts
Screen Current	1.4 milliamperes
Cathode - Bias Resistor	820 ohms
Amplification Factor	600
Plate Resistance	300,000 ohms
Transconductance	2,000 micromhos
Cut-off Grid Voltage	-15 volts

INTERELECTRODE CAPACITANCE (WITH JAN 1A NO. 314 SHIELD CONNECTED TO CATHODE)

Control - Grid to Heater, Cathode, Screen-Grid and Suppressor-Grid	3.4 μμf
Plate to Control-Grid	0.01 μμf
Plate to Heater, Cathode, Screen-Grid and Suppressor-Grid	2.9 μμf

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*5590/401A